

bel canto

e.One™ series

C7R



USER'S GUIDE

C7RTM

Integrated Amplifier / Audio DAC / Tuner
with Master Reference Ultra-ClockTM

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Important Safety Instructions

Explanation of symbols used in this manual or on the rear/underside of the apparatus:



The Lightning Flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- Read, keep and follow these instructions.
- Heed all warnings.
- Do not use the apparatus near water, ie near a bathtub, kitchen sink, laundry tub, in a wet basement, near a swimming pool etc.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the Manufacturer's instructions. Site the apparatus so that its location or position does not interfere with its proper ventilation. For example, the apparatus should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet; consult an electrician for replacement of the obsolete outlet.

TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.

THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY ACCESSIBLE.

Disconnect supply cord before changing fuse. Refer servicing to qualified service personnel.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug has been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Mains plug: Use the mains plug to disconnect the apparatus from the mains supply. The mains plug must be accessible at all times. Use the mains switch (if applicable) when the apparatus is not in use.
- Objects and liquid entry: Do not let objects or liquids fall into the apparatus. Do not expose the apparatus to dripping or splashing. Do not place a vessel containing liquid on top of the apparatus.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- The apparatus has been designed for use in moderate and tropical climates

In The U.K.

Fuse replacement:

This appliance is fitted with a non-rewireable 10 amp mains plug. The plug contains a 10 amp fuse. If the fuse has blown it can be replaced as follows:

- a) Pull out the black fuse cover/carrier.
- b) Remove and dispose of the blown fuse.
- c) Fit a new 10 amp BS1362 approved fuse into the carrier and push the carrier back into the plug.

Always ensure the fuse cover is fitted. If the fuse cover is missing do not use the plug. Contact your Bel Canto retailer to obtain a replacement fuse cover. Fuses are for fire protection and do not protect against electric shock.



WARNING: THIS APPLIANCE MUST BE GROUNDED.

FCC NOTICE

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Green By Design

All Bel Canto products make use of compact and efficient design principles. Our products use less resources per unit to produce better performance than ever before. Everything from reduced packaging volume, to less weight in transport helps to reduce the overall environmental impact of bringing our products into the market.

Our products make very efficient use of electricity. Low energy usage and compact size ensure that the physical and environmental footprints of all Bel Canto products are minimized. Quality and performance play into this approach as all of our products are designed to remain vital and valid performers for many years. Should you want to upgrade to one of our new products, we even offer trade-in value for your old Bel Canto product to ensure that it is recycled in the most efficient and responsible manner.

RoHS and WEEE

All of our current products are designed and produced to RoHS standards, ensuring that dangerous materials do not enter the waste stream. Lead free electronics assemblies and environmentally safe finishing and production methods are utilized to ensure that our products and processes are environmentally safe.

Bel Canto Recycles

Bel Canto has always been a forward thinking company. In the same way that we are focused on the development of high-end audio products, we are also conscious of what we leave behind. For many years we have implemented environmentally sound measures to make the most efficient use of resources and keep our impact at a minimum.

We reuse or recycle more than 99% of the packing materials for our incoming parts shipments. Each year we divert massive amounts of cardboard, paper, plastic film, and Styrofoam from landfills. Our plastic and Styrofoam is delivered directly to local facilities that process it on site for use in their manufacturing. Steel, aluminum, and other metal waste products are delivered to local metal scrap yards for recycling back into the production stream.

We also participate in Waste Management's e-Cycling program. All electronic waste is processed in the US, with hazardous material being separated from non-hazardous, at ISO 9001 and ISO 14001 certified regional processing centers.

Our commitment to responsible production processes ensures that the absolute minimum of material used in the making of our products enters the waste stream.

Warranty Information

Bel Canto products are automatically covered by a 90 day factory warranty that covers all internal parts and labor. Register online (http://www.belcantodesign.com/Belcanto_Warranty.html) within 30 days of purchase from an authorized dealer to automatically extend your warranty for 2 years starting from the date of purchase. If you do not have web access, please contact your dealer for assistance. Your information will be used for internal use only and will not be sold or released outside Bel Canto. Your comments and suggestions are appreciated and help us continually improve our products and services.

The warranty is only valid to the original owner and is non-transferable. Damage caused by unauthorized modification, abuse, or neglect of product will void your warranty. Any cost associated with return of product is the sole responsibility of the owner. All returns require a return authorization number issued after completing the RMA form in the support section of our website. If you have any questions, please feel free to contact us online at info@belcantodesign.com.

Unpacking Your C7R

C7R packaging contains the following:

- 1 (one) – C7R
- 1 (one) – C7R User's Guide
- 1 (one) – Power Cord
- 1 (one) – Remote Control
- 1 (one) – FM Antenna + 75 ohm Balun

Carefully unpack each piece and check for shipping damage. If there is any damage, or if anything is missing, please contact your dealer, distributor or Bel Canto Design.

IMPORTANT: Save all packing materials as they are specially designed to protect the unit during transportation or shipping. If the packing becomes lost or damaged, please contact your dealer, distributor or Bel Canto before attempting to transport your unit.

Power Connection

The power supply on the C7R is preset for the proper power voltage. The power cable should have the correct plug for your local power system. If you believe this to not be true, please contact your dealer immediately.

This product, like any electrical component, can be dangerous and cause injury unless correct handling procedures are observed and used. Before powering this product, it is necessary to read and follow proper setup and procedures.



WARNING!

Do not connect power to this product yet!

Setup & Placement

Because the C7R uses little power and runs only slightly warm, it can be placed in many system locations without compromise. We do not recommend placing weights or other objects directly on the C7R.

This may scratch or mar the chassis finish. Do not use harsh chemicals when cleaning the outside of your C7R.



IMPORTANT!

Make all connections before powering your unit!

Design Features

Digital Inputs:

- 2-SPDIF 24/192
- 2-TOSLINK 24/192
- USB 24/96

Analog Inputs:

- MM Phono
- Line Level 2.5Vrms Max

Outputs:

- Line Level Out
- Loudspeaker Outputs
- 1/4" Front Headphone Jack

Tuner

- Patented Digital IF analog FM tuner front end
- RDS/RDBS Function
- 10 Station Presets

The C7R brings remarkable clarity and power to a compact and versatile platform. With 5 digital inputs, including a high resolution USB input, MM Phono and a Line level input the C7R is a complete core for a high performance entertainment system. Just add a Mac Mini or other computer, a turntable and pair of high quality loudspeakers and you have a complete entertainment system.

All digital inputs are processed through our low jitter Master Reference Ultra-Clock circuitry to ensure the best sound quality from all possible sources. The analog section is equally over specified with a 300 mA buffer to drive the lowest impedance headphones or the internal analog switching amplifier. The amplifier retains the high dynamic range as the line level section. A zero loss 24 bit digital level control completes the package to ensure that no information is lost, retaining full clarity and dynamic impact.

The C7R uses 3rd generation switching amplifiers for lower high frequency distortion, increased clarity and better high frequency extension. The C7R delivers 120 watts into 4 ohm loads per channel or 60W @ 8 ohms per channel. All Bel Canto e.One amplifiers are gain matched for easy mixing in system building, multi-channel and vertical bi-amplification applications.

The C7R also uses our low noise power rectification and filter stage-further reducing noise and increasing energy storage and power supply quality-delivering more apparent power, enhanced resolution and sonic refinement.

Single Knob Control Functions & Display

Front Panel Control Knob:

The control knob is a continuously rotating control with a push-switch function. Always push the button with your finger in the direct center of the knob. Pushing the knob will switch between selectable values on the display. Rotating the control left or right will adjust the selected value.

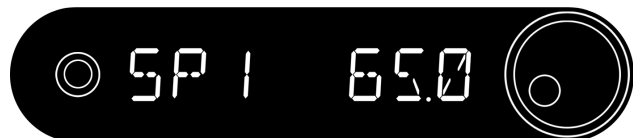


Upon Power Up:

When switched on, the C7R will perform its startup sequence followed by displaying the firmware revision.



After 2 seconds, Input Selection Mode will become active. The SP1 input will be selected by default and Soft Mute will be active. The selected input is on the left of the display and the volume is on the right. The volume level will automatically ramp down and up during this selection process



Volume Control:

The C7R allows you to change volume level by rotating the knob. The volume down function (counter-clockwise rotation) is very rapid and allows quick changes in the volume level. Volume up (clockwise rotation) functions rapidly up to a displayed volume level of 65.0. It then continues slowly to a maximum of 100.0.

Input Selection Mode:

Pressing the control knob in briefly will toggle into the input selection mode. The selected input will be displayed for 5 seconds. During this time you can rotate the control knob to scroll to the desired input. Pressing the knob again will select the indicated input. The volume level will automatically ramp down and up during this selection process. If the control knob is not pressed for 3 seconds, the indicated input will automatically be selected and the C7R will return to the default volume control mode. Inputs are indicated as: SP1 (SPDIF1), SP2 (SPDIF2), OP1 (TOSLINK), OP2 (TOSLINK), USB, LIN (Line In) and PH (Phono).

Front Panel Digital Lock Indicator:

When no valid digital input signal is present on an input, LOS (Loss Of Signal) will appear on the display.

Accessing Tuner Mode

To access the Tuner from the front panel, press and hold the Control Knob for 2 – 3 seconds. To leave Tuner Mode, hold the Control Knob for 2 – 3 seconds. *See page 9 for more information.*



To restore Factory Default settings: Hold in the Control Knob while powering up the C7R, and continue to hold until the display finishes its startup sequence.

Remote Control

The C7R Remote Control has a comprehensive set of control features that are not available on the front panel, including expanded programmability.

To access all main C7R features, press the button marked PRE towards the bottom of the remote control. To enter Tuner Mode, press Tuner. Press PRE to leave Tuner Mode and return to Input Selection mode. (The Main CD controls will still operate in the DAC, PRE and Tuner modes.)

PGM: Enter program mode. Here you can assign a four character name to each input, turn each input ON or OFF, and/or activate Home Theater Bypass for the Analog Input.



PGM key launches PROGRAM MODE

LEFT and RIGHT keys NAVIGATE

UP and DOWN keys CHANGE VALUES

CENTER key serves as ENTER

Use the four directional keys at the top of the remote to navigate programming options. Make your selection by pressing the ENTER key.



After selecting YES when entering program mode, you can name any or all inputs. Use the LEFT or RIGHT arrow to select the input to name. Press ENTER. Use the right key to select one of four characters to modify. You can quickly scroll through the characters (A-Z, 0-9, or blank) using the UP and DOWN arrows. After finishing naming the selected input, press ENTER.



Before or after naming an input, you can turn an input ON or OFF by using the UP and DOWN buttons to select ON or OFF and then pressing ENTER.



When on the ANALOG (LIN) input, you can also choose Home Theatre Bypass (HTB). In this mode, the analog input simply passes signal through with a fixed output level. Note that this disables the volume control and requires that the volume control on the Home Theater processor be used. **Use this feature only with a volume controlled line level source. Using this with the fixed output of a CD player, for example, could result in damage to the amplifier or loudspeaker!**



When you wish to exit Program mode, simply hit the PGM button. You will then be prompted to save your changes. Toggle between YES and NO and then hit ENTER.

To restore Factory Default settings: Hold in the Control Knob while powering up the C7R, and continue to hold until the display finishes its startup sequence.

VOL+: Increases the volume setting. This will Punch Through to any Bel Canto unit in Variable Output mode. The display will show the volume level while changing.

VOL-: Decreases the volume setting. This will Punch Through to any Bel Canto unit in Variable Output mode. The display will show the volume level while changing.

CH/SCAN+: This will toggle the input selection up in number and wrap around. Note that the first press of this control will show the active input selection. In Tuner Mode, this toggles the frequency up in number and wraps around.

CH/SCAN-: This will toggle the input selection down in number and wrap around. Note that the first press of this control will show the active input selection. In Tuner Mode, this toggles the frequency up in number and wraps around.

Remote Control

Display: Toggles through several display options:

1. Standard: Displays selected Input on the left and Volume on the right.
2. Sample Rate: Displays selected sample rate. Regardless of the display mode you are in, the following display will appear whenever your source changes sample rate:



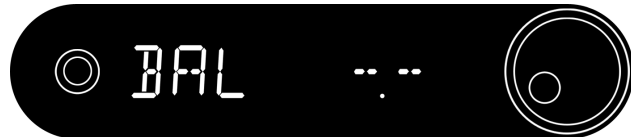
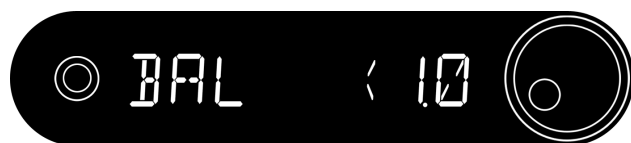
3. Product Name
4. Software Version *see page 6 for image*
5. Display Off. Using the remote or using the control knob will turn the display back on for 3 seconds.

Mute: Soft Mute is indicated by the word SOFT overwritten on the volume level display. Hard mute overwrites the level display with MUTE. The Mute function will Punch Through to any Bel Canto unit set in Variable Output mode.

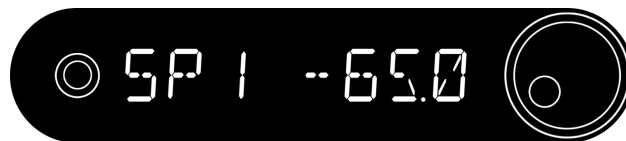
Number Buttons: Use for direct input selection.

- 1: SPDIF1 (SP1) 2: SPDIF2 (SP2) 3: TOSLINK (OP1)
- 4: TOSLINK (OP2) 5: USB (USB) 6: Analog Input (LIN)
- 7: MMA Phono (PH)

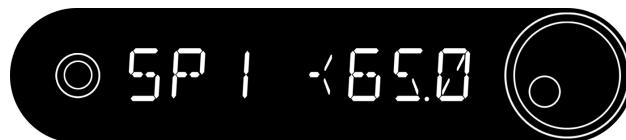
Bal L / Bal R: Shift the balance up to 6.0 dB towards either channel in increments of 0.5 dB. If the balance is activated, a right or left pointer will appear on the display. It will point towards the direction in which the balance is shifted.



Phase: Invert the phase. If enabled, you will see a dash to the left of the volume.



When both Balance and Phase shift are in effect, you will see this:



Tuner Mode

To enter Tuner Mode, either press 'Tuner' on the remote or press and hold the control knob button in for 2 -3 seconds. After entering Tuner Mode, the display will show the radio frequency on the left and the volume on the right.



Rotate the knob to change the highlighted value. The volume will be highlighted by default. To highlight the frequency, press the knob once.

Tuner Display Modes

1. Standard: displays the frequency on the left and the volume on the right. The decimal to the right of the frequency indicates the presence of the Stereo Carrier on the station.

2. RDS Mode: *Radio Data Signal*. When available, this scrolls station, song, and/or artist data across the display. Note that the RDS screen will show NO RDS until RDS data is received from the station. The RDS function is entirely dependent on the station sending the RDS data. Not all stations transmit RDS data.

There are two modes of RDS function:

- 1) Radio Text: This is the first RDS screen in the display rotation. When there is no data, NO RT will be displayed.
- 2) Program Services: This is the second RDS screen. When there is no data, NO PS will be displayed.

Depending on the radio station, there may be similar or quite different information displayed in each case. Note that the RT scrolls and the PS are displayed in 8 character segments.



3. RSSI: *Received Signal Strength Indicator*, on a scale of 1-100, over 40 is necessary for a good stereo signal. Less than 40 will be a stereo blend or mono signal.



4. Product Name: C7R

5. Software Version: displays revision of software and region code.

6. Display Off: using the remote or the knob control will turn the display back on for 3 seconds.

Additional Tuner Remote Functions

Presets: The C7R can have up to 10 presets which are noted as P0 – P9 on the display. To program each preset, hold the number button on the remote for 2 seconds while tuned in to the desired frequency. For Preset 1, hold the 1 button until P1 appears on the display. To recall the preset, simply press the number button again. To deprogram the preset, hold the number button for 2 seconds. When the frequency reappears on the display, the preset is deprogrammed. Continuing to hold the number button will continuously program and deprogram the preset.

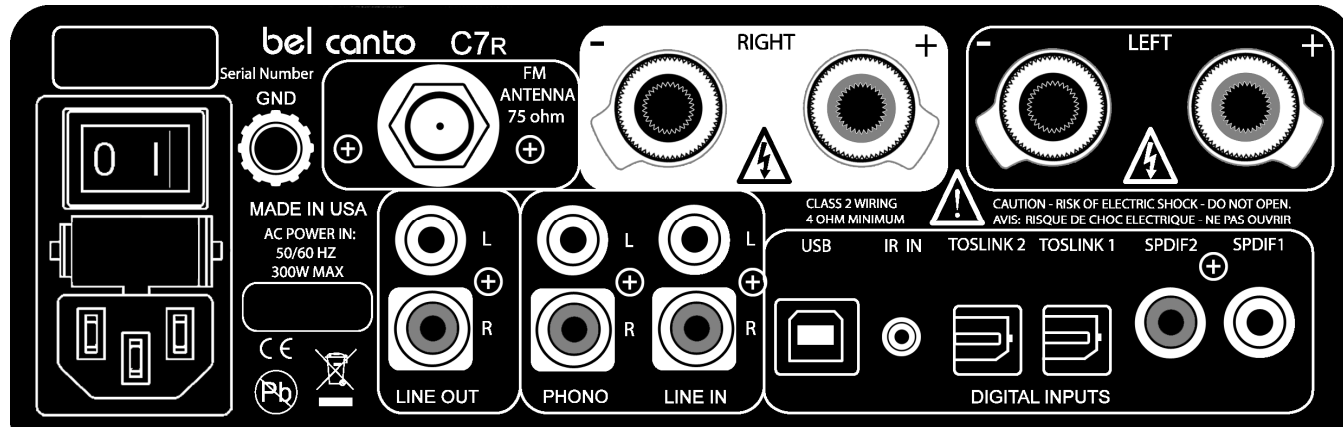
<< , >>: Discreet tuning through the entire frequency band. Hold either button for continuous tuning in a particular direction.

[<< , >>]: Choose a preset station by going in numerical value of the preset in either direction.

CH/SCAN – or +: Channel scan to the next strongest signal.

Mono: The C7R can be forced into Mono Mode as desired if the noise level for a given station is not acceptable. Pressing the Mono button again will return to normal Auto Stereo or Blend operation. When changing to a new preset or tuning a new station the Mono Mode will be reset to Auto Mode.

Rear Panel Connections



Never Connect Either the Positive or Negative Speaker Output to Any Ground Contact! Use Class 2 Wiring for all Loudspeaker Connections!

Beginning in the upper left:

- **ON/OFF switch** applies power when the switch is in the 1 position.
- **Fuse Drawer** with 5 amp/250V slow blow 5mm x 20mm fuse.
- **IEC power cord jack**: Connect the supplied or a quality aftermarket power cord from this jack. Note the power setting indicated on the back of the unit before connecting the power.
- **GND**: Ground wire attachment for turntable.
- **Antennae**: 75 ohm coaxial F-type antenna connection (*Read p. 11 regarding your antenna*)
- **Line Out**: A volume controlled line output that can be used to drive a second amplifier or powered subwoofer.
- **Line In**: For signals up to 2.5Vrms.
- **Phono**: Preamp input raises MM cartridge signal to line level.
- **USB**: Digital input can be connected to a computer for playback of any audio format up to a 24/96 data rate. The system will automatically recognize the C7R as an audio converter enumerated as *Bel Canto USB 2496* when using Windows 98 or later and any version of Macintosh OSX.
- **IR In**: Connect a 38 kHz IR extension emitter to increase range of the remote.
- **TOSLINK 2 and TOSLINK 1**: Digital inputs accept any standard plastic or glass fiber optical TOSLINK cable and operate to 24/192 data rate.
- **SPDIF2 and SPDIF1**: Digital inputs accept RCA connections from any 75 ohm SPDIF source and operate up to and including a 24/192 data rate .
- **R +/- and L +/-**: Loudspeaker binding post connectors.

When all connections to and from the unit have been made then double check everything before plugging the C7R into the power source. After turning on, the C7R will go through its display check and show the software revision number. The unit will be in Soft Mute with the SP1 input selected. The volume will be set to 50.0.

CONDITIONING

The sonic performance of the C7R will begin to stabilize after 100 hours of continuous power up.

Tips For Operation

Using Headphones

When headphones are inserted into the headphone jack, the volume can be adjusted via the control knob or remote. The input can be selected as normal from the front panel or remote. The Loudspeaker and Line Outputs of the C7R are disabled when headphones are connected.

Power Up

We recommend leaving the C7R powered at all times as the sonic quality is best after several hundred hours of play and 48-72 hours of power on after the initial break-in time.

Connection to a Computer

The USB port can be used for up to 24/96 data, enough for any CD source. For more details on optimizing computer audio sources please refer to our on-line guide at: www.belcantodesign.com

What to do if there is hum or ground noise

The design of the C7R greatly reduces the chance for ground loop induced hum and noise. Connect all power cables of the audio system to a common outlet box or power conditioner unit. Having the audio system components share a common ground will greatly reduce the possibility for ground current noise being introduced into the audio signal path.

Volume Control Punch Through

The Volume Up, Down and Mute functions on the remote control will affect any Bel Canto unit in Variable Output mode regardless of whether PRE, DAC, CD or TUNER is selected. It is recommended that only the device with volume control closest to the power amps be in Variable Output mode. Any other devices that are capable of volume control should be in Fixed Volume mode.

Choosing Your Antenna

The quality of your FM Antenna and the location and connection of the antenna are critical to the quality of the audio that you will get from any FM tuner. The supplied antenna wire is only intended as a quick way to check the correct hookup and operation of the FM1 but should NOT be used for critical evaluation of the FM1 performance. **It is important that you work with your dealer in choosing and setting up the correct 75 ohm FM antenna for your reception area and needs.**

There are 3 points to pay attention to:

- 1) Choose the best FM only antenna that you can afford and accommodate in your location. Good results can be had in urban areas using a directional indoor antenna but in rural areas where station strength may be low it could well be necessary to install a good quality Yagi directional antenna that is sited to receive your favorite radio stations. There are many sources of good FM antennas for example: <http://www.fmdxantenna.com> has a good selection of both indoor and outdoor antennas that should work well. Beware of the cheap 'active' gain antennas from various sources as they often just add noise and distortion to the signal and do not really improve reception.
- 2) Use the correct 75 ohm coaxial cabling to connect from the antenna to the FM1. RG6 type coax is the best for cable runs over 75-100 feet while RG59/U type cable can be used for shorter runs. In any case make sure that the terminations and connections are clean and tight for reliable operation.
- 3) Any outdoor antenna should be installed by a professional to make sure that the correct safety precautions are taken to protect you and your equipment.

Specifications

Power Output 1% THD:	120W @ 4 ohms, 60W @ 8 ohms per channel
Minimum Load:	3 ohms per channel
Peak Output Current:	30 amperes
Frequency Response:	+/-3 dB 1.5Hz-90kHz, 4 ohm load
THD+N:	0.003% 1W, 1kHz, 4 ohms
IMD (CCIF):	0.0003%, 1W, 14:15kHz, 4 ohms
Output noise:	<50uVRMS A-weighted 10Hz-20kHz
Damping factor:	>200
Output Impedance at 100Hz:	<20 milliohms
Dynamic Range:	115 dB
Input connections:	5-Digital Inputs, MM Phono and Line Level Analog
Line In impedance:	11 k ohms
Phono In Impedance:	47 k ohms/150pF
Phono In Sensitivity:	2.5mV – 7mV nominal cartridge output range
Phono Accuracy:	+/- 0.25dB, 50Hz-15KHz
Output connections:	2 sets of Binding Posts, RCA Line Out, Headphone Output
Line Out Impedance:	100 ohms
Power On usage:	14W
Power Off usage:	0.0W
Power Input:	100-120VAC, 230-240VAC 50/60 Hz
Fuse:	Littlefuse 215 Series, 10 ampere, time-lag, 250VAC, 5x20mm ceramic body fuse
Size:	8.5 x 3.5 x 12[inches], 216 x 88 x 305[mm] (WxHxD)
Weight:	13lbs, 6.5Kg

FM Section:

Input Frequency Range:	76-108 MHz
Sensitivity with 75 ohm input:	1.1uV EMF (S+N)/N=26dB
Input IP3:	105 dBuV $ f_2 - f_1 > 1 \text{ MHz}; f_0 = 2 \times f_1 - f_2$
Adjacent Channel Selectivity:	50 dB +/- 200KHz
Alternate Channel Selectivity:	70 dB +/- 400KHz
Frequency Response:	30Hz-15Khz -3dB
S/N:	>63dB
THD:	<0.1%

Features and specifications are subject to improvements and changes without prior notice.

Declaration Of Conformity

Application of Council Directive(s):

2004/108/EC and 2006/95/EC, as amended

Standard(s) to Which Conformity Is Declared:

EN 55013:2001 + A1:2003 + A2:2006

EN 55020:2007

EN 61000-3-2:2006

EN 61000-3-3:1995 + A1:2001 + A2:2005

EN 60065:2002/A12:2011

Manufacturer:

Bel Canto Design, Ltd.

221 1st Street North

Minneapolis, MN 55401 USA

The equipment identified here conforms to the Directive(s) and Standard(s) specified above.

Type of Equipment: Integrated Power Amplifier

Models: C7R

Date: January, 2012

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